|  |  |  |  |
| --- | --- | --- | --- |
|  | | **No curb & gutter within proposed development, including new proposed roads** | **Curb & gutter included in proposed development** |
| **BUA < 6%** | | * Vegetated conveyances only * Disconnect impervious cover from conveyances * Disperse IC-concentrated flows | Not applicable |
| **6% ≤ BUA < 12%** | | * Vegetated conveyances only * Disconnect impervious cover from conveyances * Disperse IC-concentrated flows * Treat transportation impervious cover w/ primary SCM or runoff-reducing secondary SCM | * Treat site runoff from 1" storm w/ primary SCM, including volume reduction requirement (see below), calculated w/ curve number method   OR   * Treat site runoff from 90th percentile storm w/ primary SCM |
| **12% ≤ BUA** | **Stream**  **Protection**  **Criteria** | *Potential Options for Initial Discussion*   * Control the 2yr/24hr post-development peak flow rate to 50% of the 2yr/24hr pre-development level   OR   * Control the 2yr/24hr post-development peak flow rate to the 1yr/24hr predevelopment level   OR   * Detain the volume difference between the post-development 1yr/24hr storm and the pre-development 1yr/24hr storm, releasing the volume over 24 hours | |
| **Water**  **Quality**  **Treatment**  **Criteria** | * Treat site runoff from 1" storm w/ primary SCM, including volume reduction requirement (see below), calculated w/ curve number method   OR   * Treat site runoff from 90th percentile storm w/ primary SCM | |

Transportation Impervious Cover: Uncovered, paved or hardened surfaces used by vehicles, including parking areas, driveways, and roads

Primary SCMs: Bioretention, Infiltration, SW Wetland, Permeable Pavement, Wet Pond, Sand Filter, Rainwater Harvesting, StormFilter, Silva Cell, others specified in NC Stormwater Design Manual

Runoff-reducing Secondary SCMs: DIS; LS-FS; Treatment Swale;

**Volume Reduction Requirement (SCS method)**

Portion of runoff from 1" storm that is required to be achieved via evapotranspiration, infiltration, or slow filtered discharge

|  |  |
| --- | --- |
| **Hydrologic Soil Group** | **Volume Reduction Requirement** |
| A | 0.38 |
| B | 0.26 |
| C | 0.13 |
| D | 0.07 |

**Stream Protection Criteria**

Options:

* Control the 2-year, 24-hour post-development peak flow rate to 50 percent of the 2-year, 24-hour pre-development level
* Control the 2-year, 24-hour post-development peak flow rate to the 1-year, 24-hour predevelopment level
* 24-hour extended detention of post-developed 1-year, 24-hour storm event

Exemptions:

* The entire channel protection volume is recharged to groundwater
* Sites less than or equal to one acre of impervious cover
* Compliance with the stream protection criteria above can be demonstrated to result in no benefit to current and future downstream development